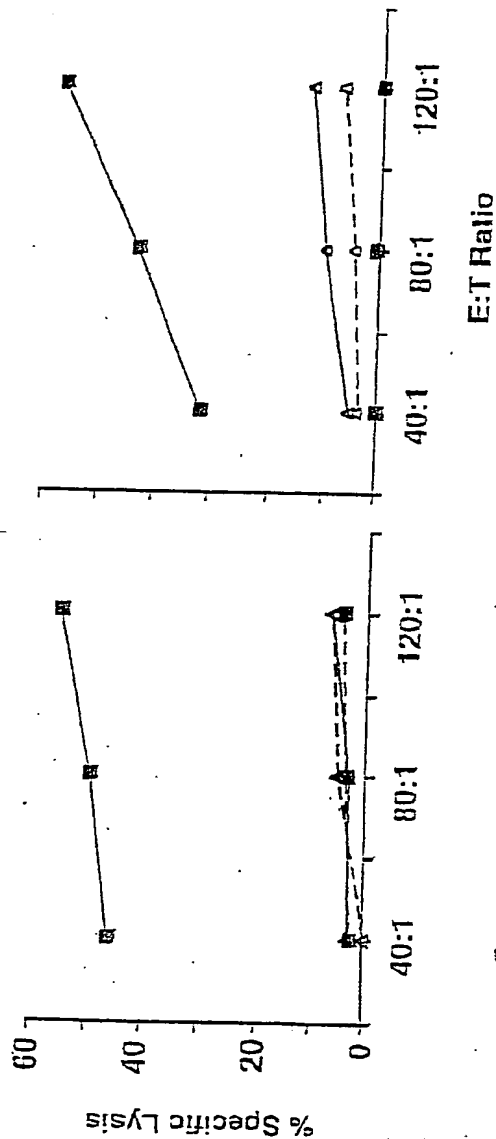




Figure 1B

CD4^{-/-}



Effector Cells elicited with:

■ OVA.TBhsp70

△ OVA

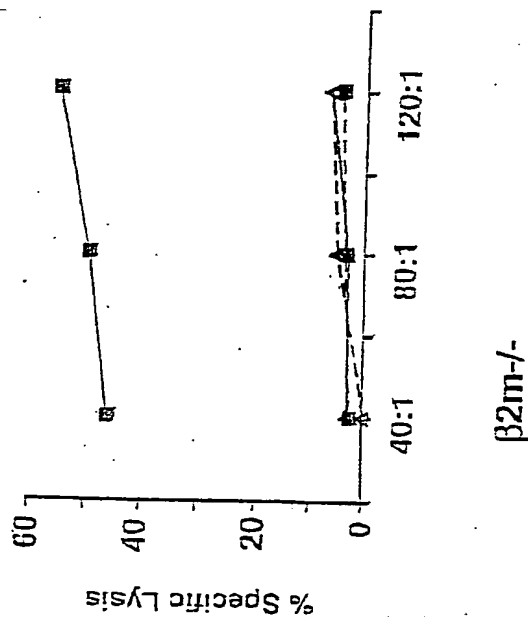
Target Cells:

--- T2-K^b

— T2-K^b+SINFEKL peptide (e.g., 1×10^{-7} M)

Figure 1A

C57BL/6 (Wild Type)



β2m^{-/-}

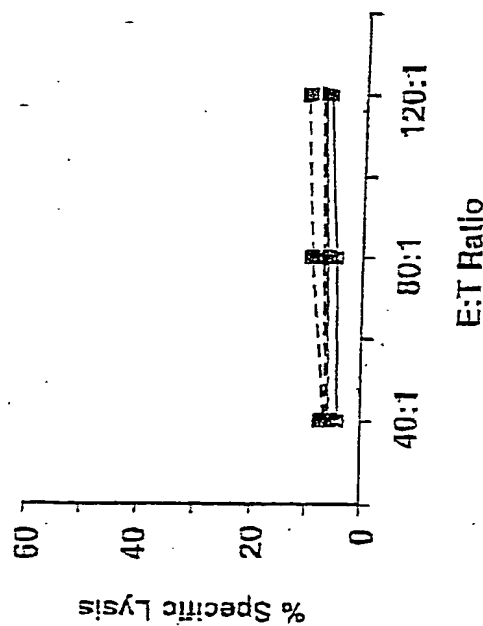


Figure 1C



Figure 2A

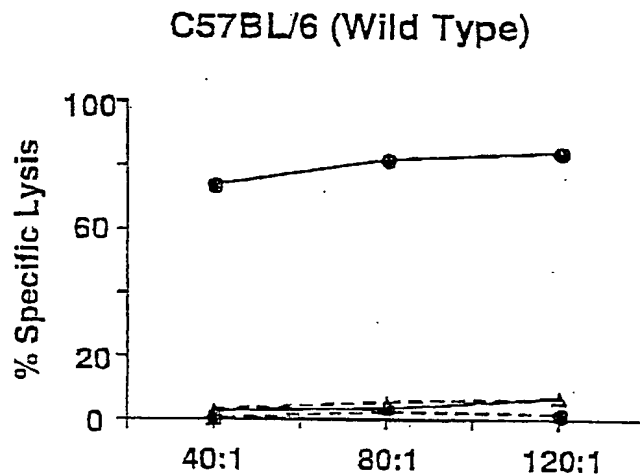
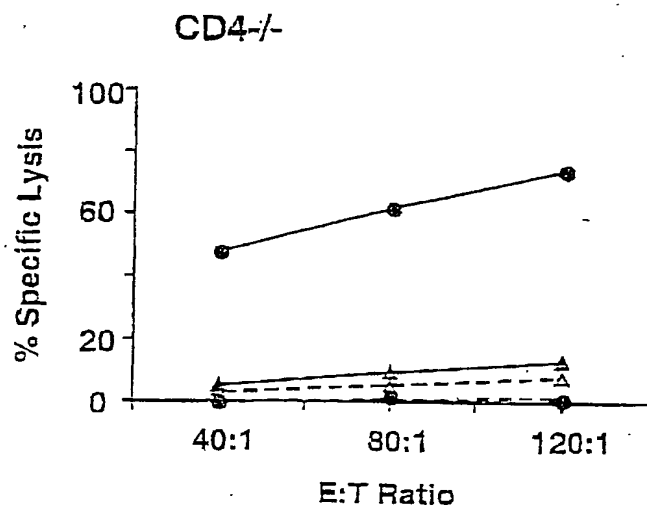


Figure 2B



Effector Cells

elicited with:
● OVA.mhsp70

Δ OVA

Target Cells:

--- T2-K^b

— T2-K^b+SIINFEKL



App No.: 09/761,534
Title: In Vivo CTL Elicitation by Heat Shock Protein..
Inventors: Qian Huang, *et al.*

Hsp70 Domains

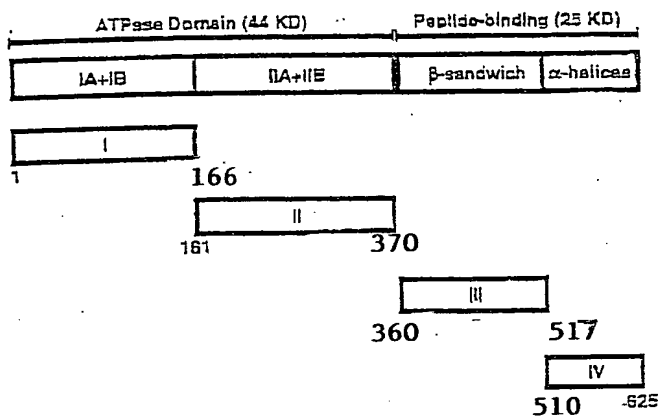


Figure 3



App No.: 09/761,534
Title: In Vivo CTL Elicitation by Heat Shock Protein
Inventors: Qian Huang, *et al.*

C57BL/6

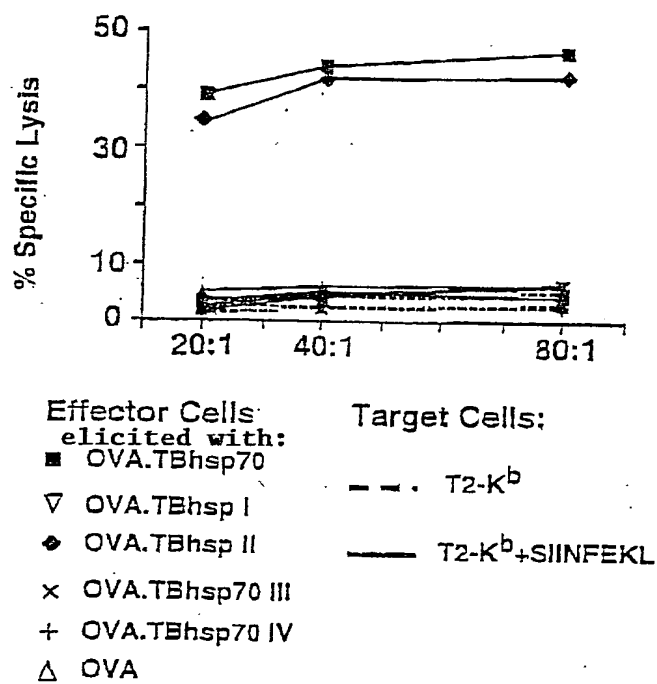


Figure 4



App No.: 09/761,534
Title: In Vivo CTL Elicitation by Heat Shock Protein..
Inventors: Qian Huang, *et al.*

IKVSGLEQLESIYRYYYGLLLKEAY
Ova ↑ ↑ αKG

Figure 5A



Figure 5B

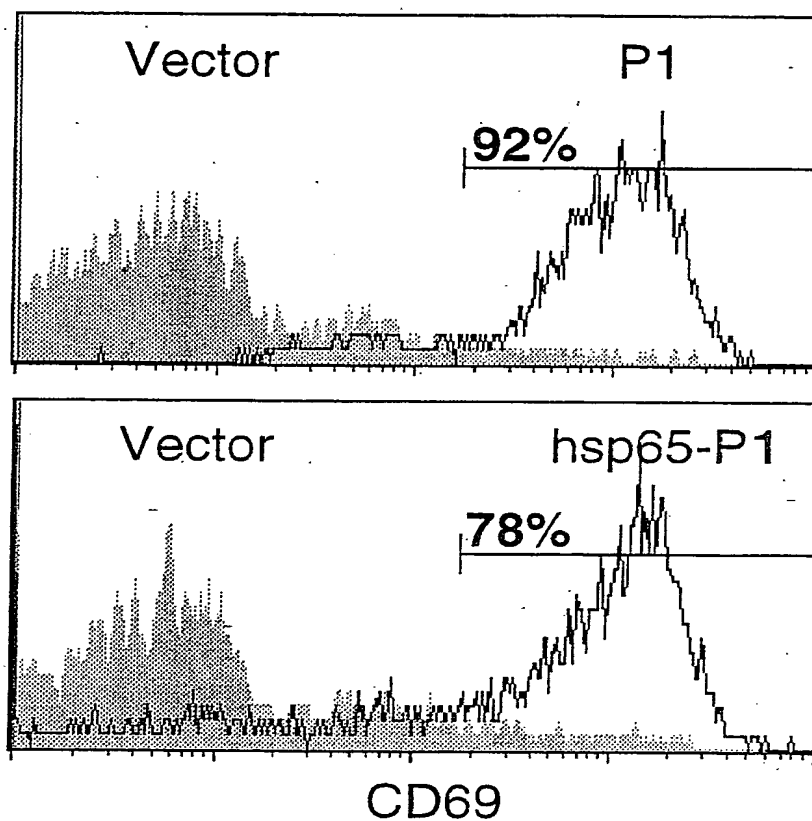
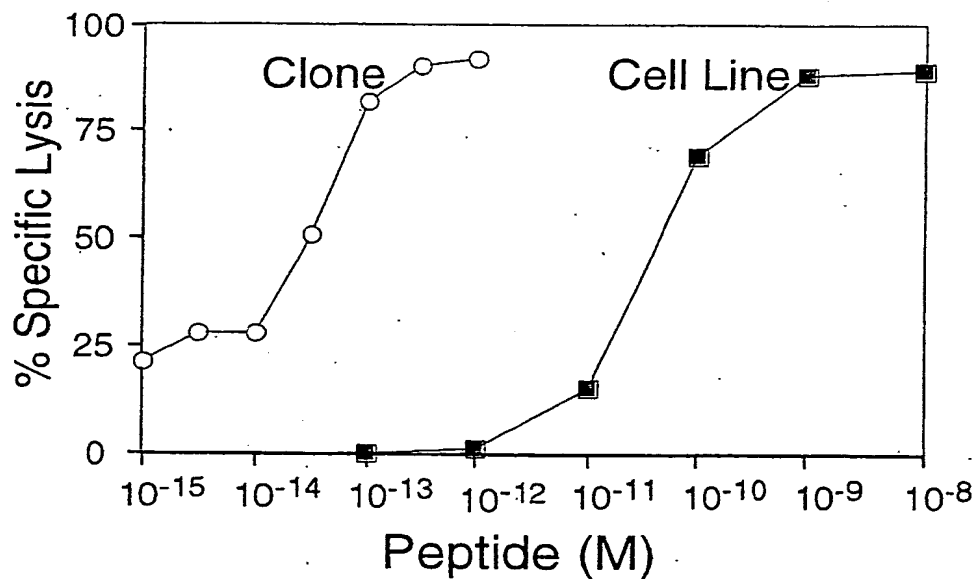


Figure 5C



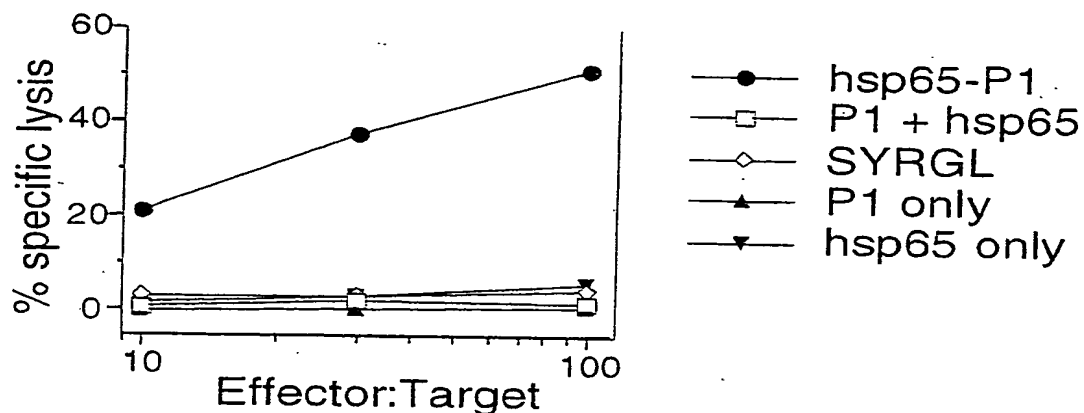


Figure 6A

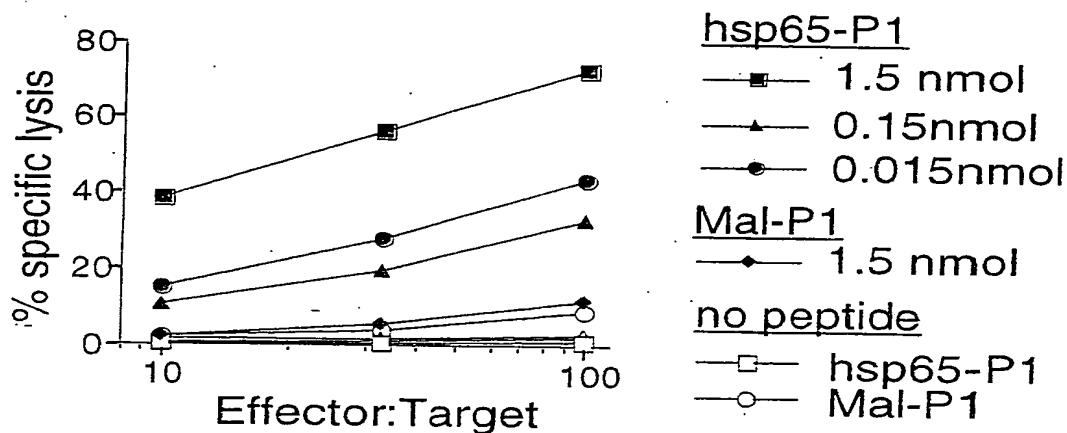


Figure 6B

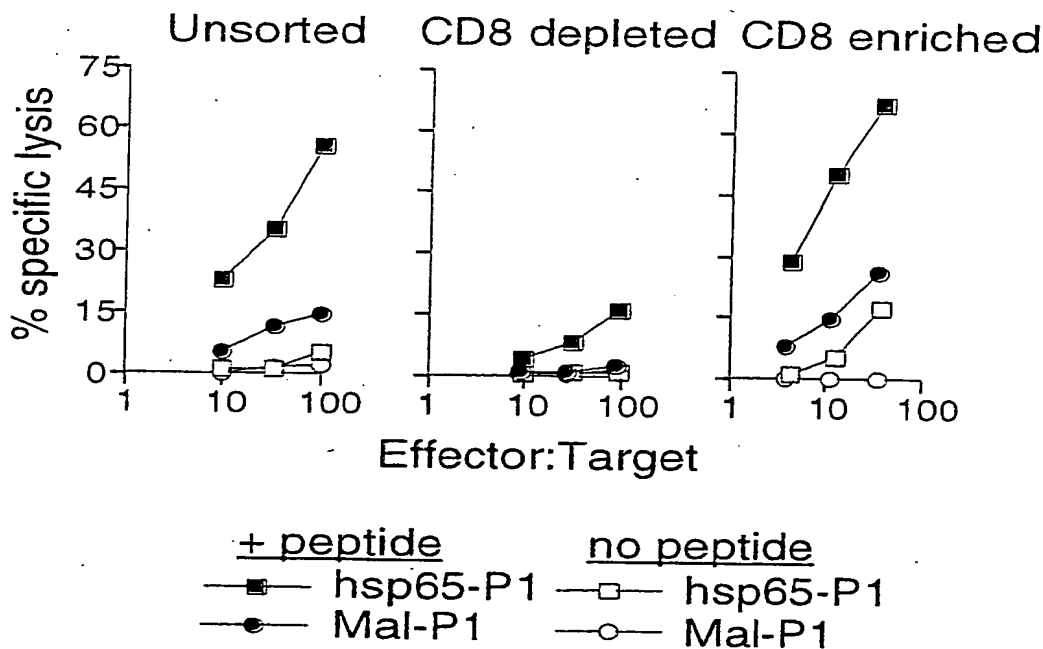


Figure 6C

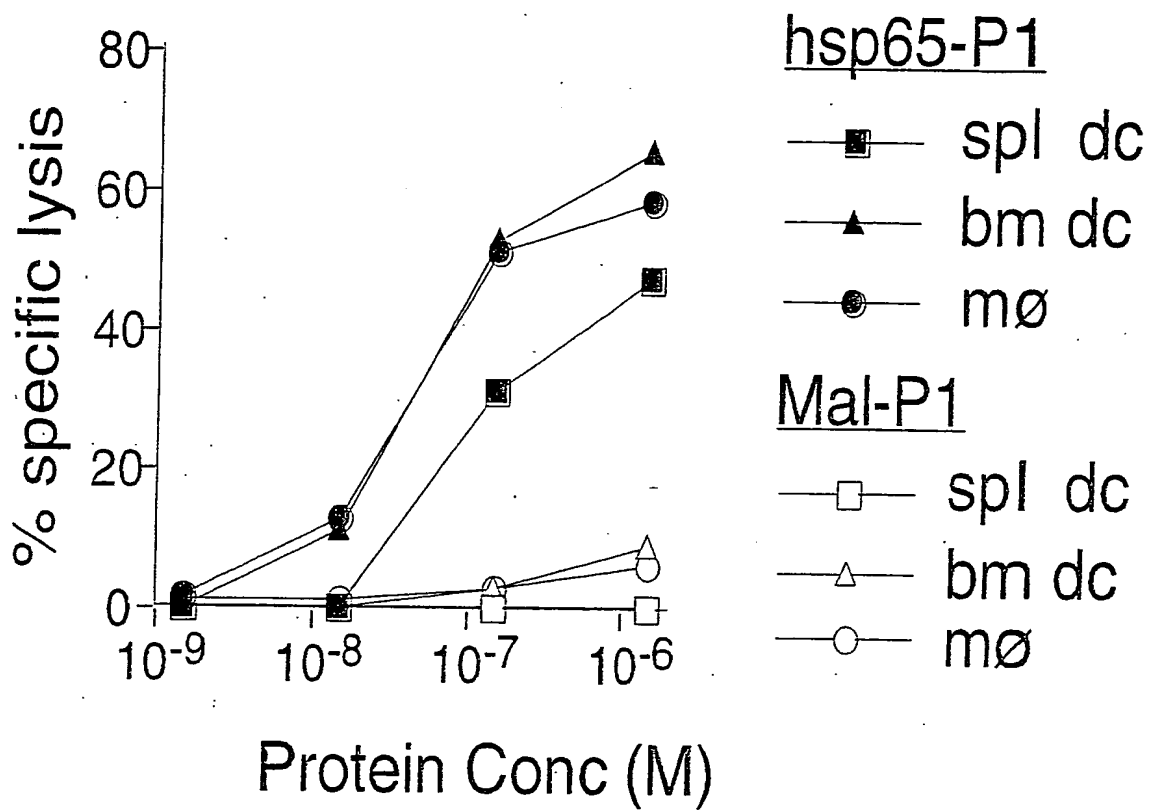


Figure 7

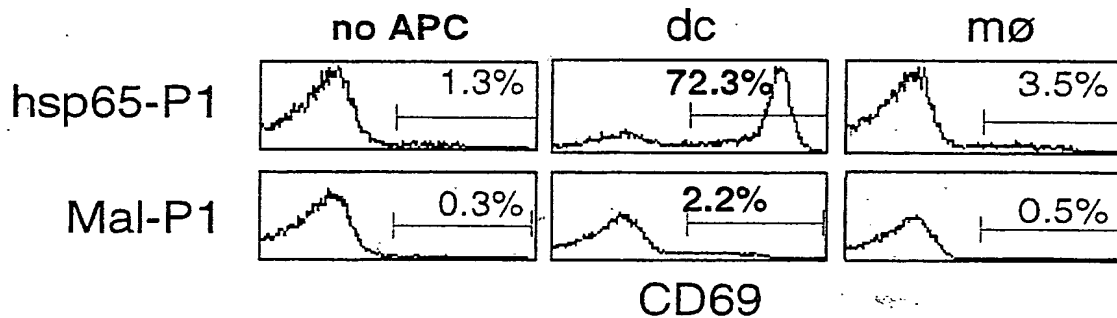


Figure 8A

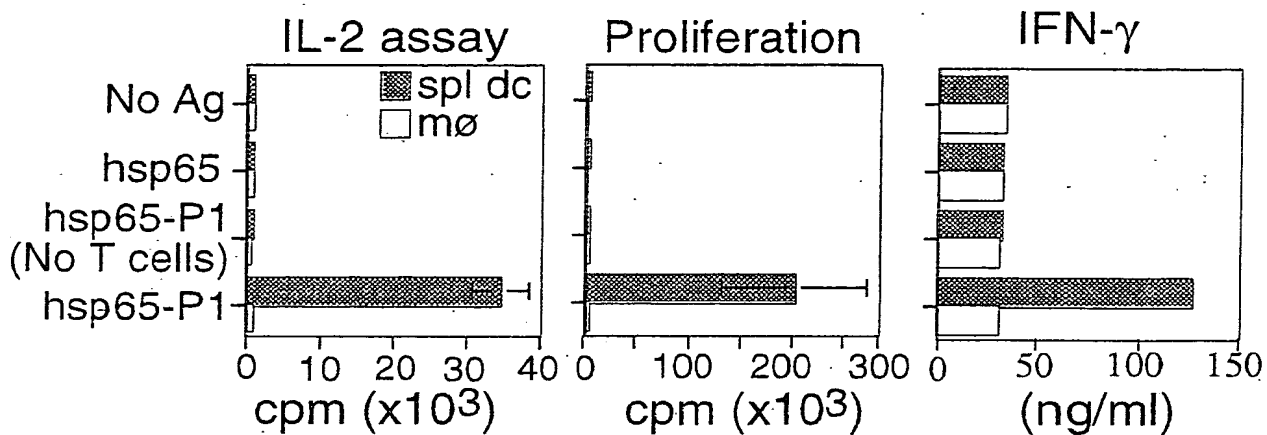


Figure 8B

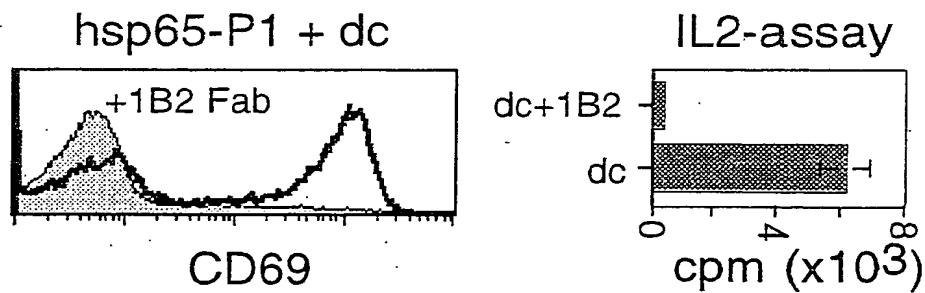


Figure 8C



Figure 9A

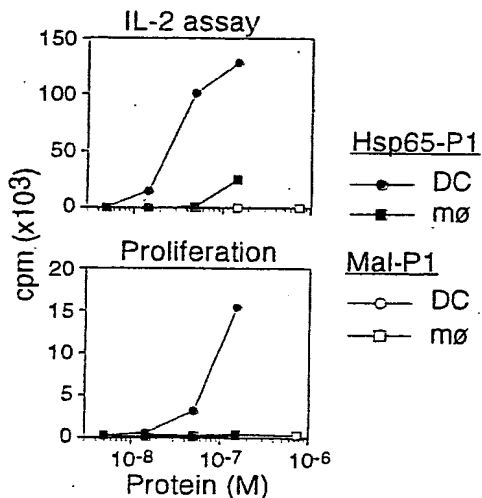


Figure 9B

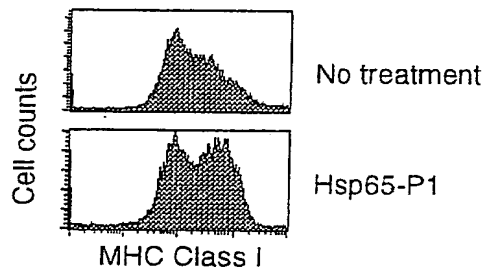
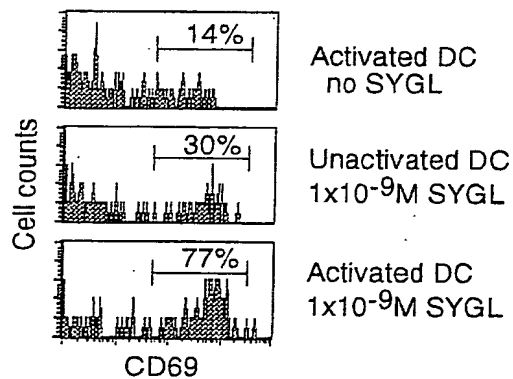


Figure 9C



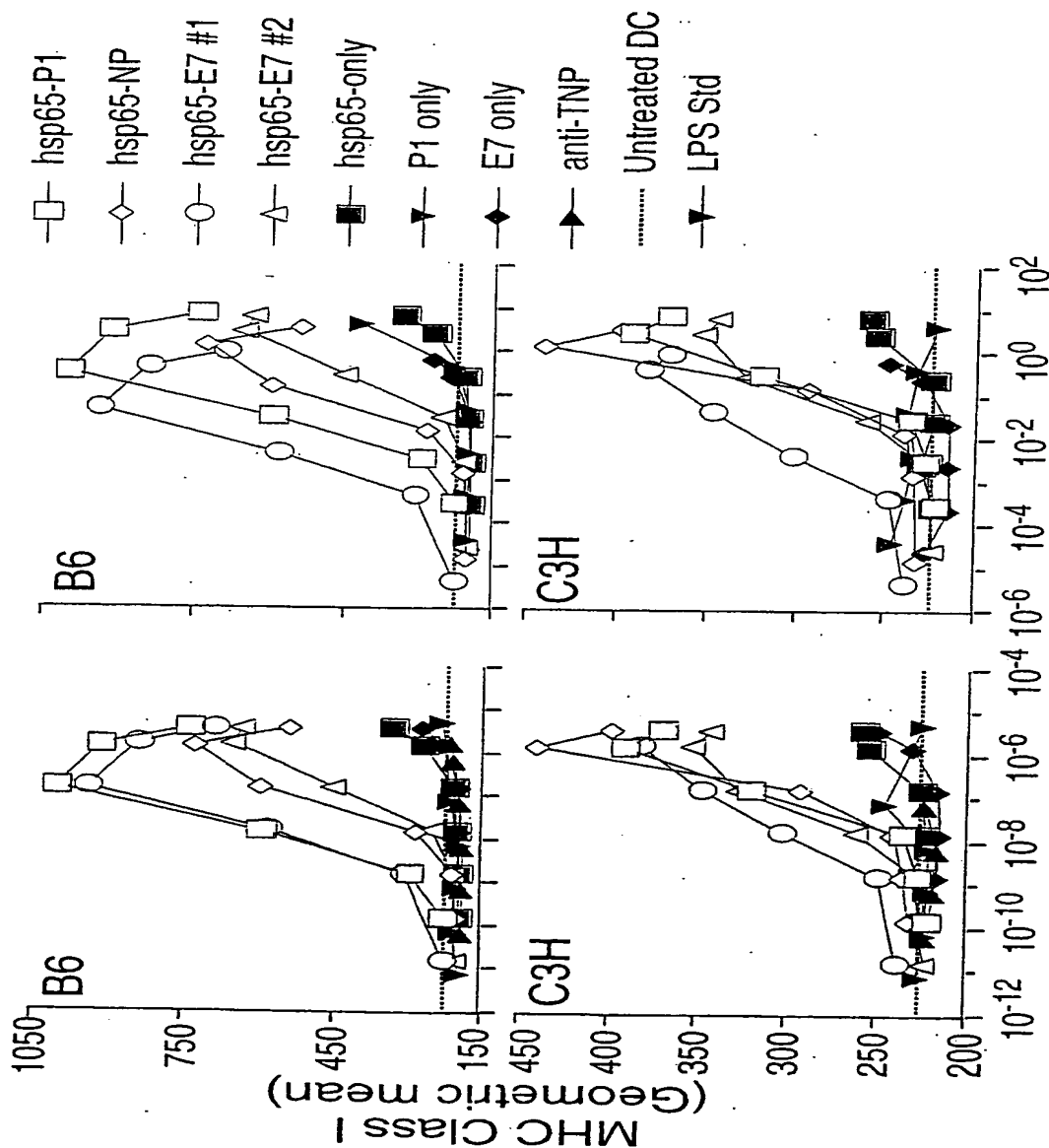


Figure 10A
 Protein [M]
 Figure 10B
 Endotoxin [EU/ml]

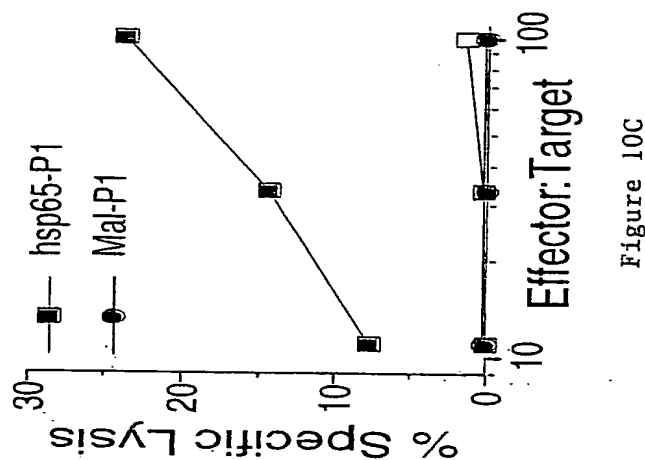


Figure 10C



ATG GCT CGT GCG GTC GGG ATC GAC CTC GGG ACC ACC AAC TCC GTC GTC TCG GTT CTG GAA
GGT GGC GAC CCG GTC GTC GTC GCC AAC TCC GAG GGC TCC AGG ACC ACC CCG TCA ATT GTC
GCG TTC GCC CGC AAC GGT GAG GTG CTG GTC GGC CAG CCC GCC AAG AAC CAG GCA GTG ACC
AAC GTC GAT CGC ACC GTG CGC TCG GTC AAG CGA CAC ATG GGC AGC GAC TGG TCC ATA GAG
ATT GAC GGC AAG AAA TAC ACC GCG CCG GAG ATC AGC GCC CGC ATT CTG ATG AAG CTG AAG
CGC GAC GCC GAG GCC TAC CTC GGT GAG GAC ATT ACC GAC GCG GTT ATC ACG ACG CCC GCC
TAC TTC AAT GAC GCC CAG CGT CAG GCC ACC AAG GAC GCC GGC CAG ATC GCC GGC CTC AAC
GTG CTG CCG ATC GTC AAC GAG CCG ACC GCG GCC CTG GCC TAC GGC CTC GAC AAG GGC
GAG AAG GAG CAG CGA ATC CTG GTC TTC GAG TTG GGT GGT GGC ACT TTC GAC GTT TCC CTG
CTG GAG ATC GGC GAG GGT GTG GTT GAG GTC CGT GCC ACT TCG GGT GAC AAC CAC CTC GGC
GGC GAC GAC TGG GAC CAG CCG GTC GTC GAT TGG CTG GTG GAC AAG TTC AAG GGC ACC AGC
GGC ATG GAT CTG ACC AAG GAC AAG ATG GCG ATG CAG CCG CTG CCG GAA GCC GCC GAG AAG
GCA AAG ATC GAG CTG AGT TCG AGT CAG TCC ACC TCG ATC AAC CTG CCC TAC ATC ACC GTC
GAC GCC GAC AAG AAC CCG TTG TTC TTA GAC GAG CAG CTG ACC CCG GCG GAG TTC CAA CCG
ATC ACT CAG GAC CTG CTG GAC CCG ACT CCG AAG CCG TTC CAG TCG GTG ATC GCT GAC ACC
GGC ATT TCG GTG TCG GAG ATC GAT CAC GTT GTG CTC GTG GGT GGT TCG ACC CCG ATG CCG
GCG GTG ACC GAT CTG GTC AAG GAA CTC ACC GGC GGC AAG GAA CCC AAC AAG GGC GTC AAC
CCC GAT GAG GTT GTC GCG GTG GGA GCC GCT CTG CAG GCC GGC GTC CTC AAG GGC GAG GTG
AAA GAC GTT CTG CTG GTT GAT GTT ACC CCG CTG AGC CTG GGT ATC GAG ACC AAG GGC GGC
GTG ATG ACC AGG CTC ATC GAG CCG AAC ACC ACG ATC CCC ACC AAG CCG TCG GAG ACT TTC
ACC ACC GCC GAC GAC AAC CAA CCG TCG GTG CAG ATC CAG GTC TAT CAG GGC GAG CGT GAG

Figure 11

GAG AAG GAG CAG CGA ATC CTG GTC TTC GAC TTG GGT GGT GGC ACT TTC GAC GTT TCC CTG
CTG GAG ATC GGC GAG GGT GTG GTT GAG GTC CGT GCC ACT TCG GGT GAC AAC CAC CTC GGC
GGC GAC GAC TGG GAC CAG CCG GTC GTC GAT TGG CTG GTG GAC AAG TTC AAG GGC ACC AGC
GGC ATG GAT CTG ACC AAG GAC AAG ATG GCG ATG CAG CCG CTG CCG GAA GCC GCC GAG AAG
GCA AAG ATC GAG CTG AGT TCG AGT CAG TCC ACC TCG ATC AAC CTG CCC TAC ATC ACC GTC
GAC GCC GAC AAG AAC CCG TTG TTC TTA GAC GAG CAG CTG ACC CCG GCG GAG TTC CAA CCG
ATC ACT CAG GAC CTG CTG GAC CCG ACT CCG AAG CCG TTC CAG TCG GTG ATC GCT GAC ACC
GGC ATT TCG GTG TCG GAG ATC GAT CAC GTT GTG CTC GTG GGT GGT TCG ACC CCG ATG CCC
GCG GTG ACC GAT CTG GTC AAG GAA CTC ACC GGC GGC AAG GAA CCC AAC AAG GGC GTC AAC
CCC GAT GAG GTT GTC GCG GTG GGA GCC GCT CTG CAG GCC GGC GTC CTC AAG GGC GAG GTG
AAA GAC GTT CTG CTG CTT GAT GTT ACC CCG

Figure 12



ATG GCC AAG AAC ACG GCG ATC GGC ATC GAC CTG GGC ACC ACC TAC TCG TGC GTG GGC GTG
TTC CAG CAC GGC AAG GTG GAG ATC ATC GCC AAC GAC CAG GGC AAC CGC ACG ACC CCC AGC
TAC GTG GCC TTC ACC GAC ACC GAG CGC CTC ATC GGG GAC GCC AAC CAG GTG GCG
CTG AAC CCG CAG AAC ACC GTG TTC GAC GCG AAG CGG CTG ATC GGC CGC AAG TTC GGC GAT
GCG GTG GTG CAG TCC GAC ATG AAG CAC TGG CCC TTC CAG GTG GTG AAC GAC GGC GAC AAG
CCC AAG GTG CAG GTG AAC TAC AAG GGC GAG AGC CGG TCG TTC TTC CCG GAG GAG ATC TCG
TCC ATG GTG CTG ACG AAG ATG AAG GAG ATC GCT GAG GCG TAC CTG GGC CAC CCG GTG ACC
AAC GCG GTG ATC ACG GTG CCC GCC TAC TTC AAC GAC TCT CAG CGG CAG GCC ACC AAG GAC
GCG GGC GTG ATC GCC GGT CTA AAC GTG CTG CGG ATC ATC AAC GAG CCC ACG GCG GCC GCC
ATC GCC TAC GGG CTG GAC CGG ACC GGC AAG GGC GAG CGC AAC GTG CTC ATC TTC GAC CTG
GGG GGC GGC ACG TTC GAC GTG TCC ATC CTG ACC ATC GAC GAC GGC ATC TTC GAG GTG AAG
GCC ACG GGC GGC GAC ACC CAC CTG GGA GGC GAG GAC TTC GAC AAC CGG CTG GTG AGC CAC
TTC GTG GAG GAG TTC AAG AGG AAG CAC AAG AAG GAC ATC AGC CAG AAC AAG CGC GCG GTG
CGG CGG CTG CGC ACG GCG TGT GAG AGG GCC AAG AGG ACG CTG TCG TCC AGC AGC CAG GCG
AGC CTG GAG ATC GAC TCT CTG TTC GAG GGC ATC GAC TTC TAC ACA TCC ATC AGG CGG GCG
GGG TTC GAA GAG CTG TGC TCG GAC CTG TTC GGC GGC ACG CTG GAG GCC GTG CAG AAG GCG
CTG GCG GAC GCC AAG ATC GAC AAG GCC CAG ATC CAC GAC CTG GTG CTG GTG GGC GGC TGG
ACG GCG ATC GCG AAG GTG CAG AAG CTG CTG CAG GAC TTC TTC AAC GGC CGC GAC CTG AAC
AAG AGC ATC AAC CCG GAC GAG GCG GTG GCG TAC GGG GCG GCG GTG CAG GCG GCC ATC CTG
ATG GGG GAC AAG TCG GAG AAC GTG CAG GAC CTG CTG CTG GAC GTG GCG GCC CTG TCG
CTG GGC CTG GAG ACT GCG GGC GGC GTG ATG ACG GCG CTC ATC AAG CGC AAC TCC ACC ATC
CCC ACC AAG CAG ACG CAG ACC TTC ACC ACC TAC TCG GAC AAC CAG CCC GGG GTG CTG ATC

Figure 13A

CAG GTG TAC GAG GGC GAG AGG GCC ATG ACG CGC GAC AAC AAC CTG CTG GGC CGC TTC GAG
CTG AGC GGC ATC CCG CCG GCG CCC AGG GGC GTC CCG CAG ATC GAG GTG ACC TTC GAC ATC
GAC GCC AAC GGC ATC CTG AAC GTC ACG GCC ACC GAC AAG AGC ACC GGC AAG GCC AAC AAG
ATC ACC ATC ACC AAC GAC AAG GGC CGC CTG AGC AAG GAG GAG ATC GAG CGC ATG GTG CAG
GAG GCC GAG CGC TAC AAG GCC GAG GAC GAG GTG CAG CGC GAC AGG GTG CGG GCC AAG AAC
GCG CTC GAG TCC TAT GCC TTC AAC ATG AAG AGC GCC GTG GAG GAC GAG GGT CTC AAG GGC
AAG CTC AGC GAG GCT GAC AAG AAG AAG GTC CTG GAC AAG TGC CAG GAG GTC ATC TCC TGG
CTG GAC TCC AAC ACG CTG GCC GAC AAG GAG GAG TTC GTG CAC AAG CGG GAG GAG CTG GAG
CGG GTG TGC AGC CCC ATC ATC AGT GGG CTG TAC CAG GGT GCG GGT GCT CCT GGG GCT GGG
GGC TTC GGG CCG CAG GCG CCG CCG AAA GGA GCC TCT GGC TCA GGA CCC ACC ATC GAG GAG
GTG GAT TAG

Figure 13B

AAG GGC GAG CGC AAC GTG CTC ATC TTC GAC CTG
GGG GGC GGC ACG TTC GAC GTG TCC ATC CTG ACG ATC GAC GAC GGC ATC TTC GAG GTG AAG
GCC ACG GCG GGC GAC ACG CAC CTG GGA GGC GAG GAC TTC GAC AAC CGG CTG GTG AGC CAC
TTC GTG GAG GAG TTC AAG AGG AAG CAC AAG AAG GAC ATC AGC CAG AAC AAG CGC GCG GTG
CGG CGG CTG CGC ACG GCG TGT GAG AGG GCC AAG AGG ACG CTG TCG TCC AGC ACC CAG GCC
AGC CTG GAG ATC GAC TCT CTG TTC GAG GGC ATC GAC TTC TAC ACA TCC ATC ACG CGG GCG
CGG TTC GAA GAG CTG TGC TCG GAC CTG TTC CGC GGC ACG CTG GAG CCC GTG GAG AAG GCG
CTG CGC GAC GCC AAG ATG GAC AAG GCC CAG ATC CAC GAC CTG GTG CTG GTG GGC GGC TCG
ACG CGC ATC CCC AAG GTG CAG AAG CTG CTG CAG GAC TTC TTC AAC GGC CGC GAC CTG AAC
AAG AGC ATC AAC CCG GAC GAG GCG GTG GCC TAC GGG GCG GCG GTG CAG GCG GCC ATC CTG
ATG GGG GAC AAG TCG GAG AAC GTG CAG GAC CTG CTG CTG CTG GAC GTG GCG CCC

Figure 14